

ABSTRACT OF THE DISCLOSURE

A method and system for processing of natural gas in which a gaseous natural gas stream which is made up of a mixture of hydrocarbons is introduced into a vortex tube, forming a hot fluid stream and a cold fluid stream. The cold fluid stream is introduced into the upper section of a distillation column and the hot fluid stream is introduced into the lower section of the distillation column, resulting in improved separation of the heavier hydrocarbon components in the natural gas stream from the lighter hydrocarbon components disposed in the natural gas stream.